

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 154

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2020	May-2020	Jun-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2020)	162.6	248.1	53.1	44.0	100.6	59.9	49/111
Lautoka Mill (1900-2020)	237.2	187.8	66.9	32.8	78.5	48.1	78/121
Nadi Airport (1942-2020)	177.2	156.1	32.5	24.3	72.7	53.2	32/79
Central Division							
Laucala Bay (Suva) (1942-2020)	772.5	238.0	208.1	101.3	208.3	137.1	53/79
Nausori Airport (1957-2020)	685.0	196.6	206.8	92.0	195.1	142.5	44/64
Tokotoko (Navua) (1945-2020)	1085.2	203.1	328.5	129.1	234.5	160.4	64/76
Eastern Division							
Lakeba (1950-2020)	436.0	86.6	75.1	51.3	128.1	86.6	34/71
Vunisea (Kadavu) (1931-2020)	505.7	76.1	183.7	84.0	142.8	115.9	68/84
Ono-i-Lau (1943-2020)	358.2	202.1	97.4	61.5	109.5	78.8	47/73
Northern Division							
Labasa Airport (1946-2020)	163.9	132.6	39.2	28.8	83.7	47.7	29/64
Savusavu Airfield (1956-2020)	275.9	263.6	83.7	58.3	136.0	110.3	25/62
Udu Point	218.4	303.2	210.0	75.2	149.6	105.4	56/72
Rotuma (1912-2020)	188.5	140.0	258.6	202.8	303.8	245.9	55/106

**TABLE 2: Three-month Rainfall for April to June 2020**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January-February 2020				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2020)	463.8	Normal	368.7	541.4	440.4	64/110	37	35	28	1	Near-consistent
Lautoka Mill (1900-2020)	491.9	Above normal	263.9	410.4	346.3	100/121	43	35	22	13	Inconsistent
Nadi Airport (1942-2020)	365.8	Normal	254.1	377.3	314.4	48/78	41	34	25	8	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2020)	1218.6	Above normal	678.4	844.1	731.6	76/79	39	35	26	4	Inconsistent
Nausori Airport (1957-2020)	1088.4	Above normal	645.9	792.9	706.2	58/64	41	34	25	8	Inconsistent
Tokotoko (Navua) (1945-2020)	1616.8	Above normal	730.0	977.8	861.9	75/76	39	37	24	7	Inconsistent
Eastern Division											
Lakeba (1950-2020)	597.7	Above normal	355.9	502.1	429.8	54/68	40	32	28	5	Inconsistent
Vunisea (Kadavu) (1931-2020)	765.5	Above normal	484.9	617.5	547.8	73/84	42	31	27	8	Inconsistent
Ono-i-Lau (1943-2020)	657.7	Above normal	321.5	475.8	426.0	63/70	44	27	29	12	Inconsistent
Northern Division											
Labasa Airport (1947-2020)	335.7	Normal	318.6	448.0	404.8	23/64	39	31	30	2	Near-consistent
Savusavu Airfield (1957-2020)	623.2	Normal	397.5	629.2	497.5	40/61	42	38	20	14	Near-consistent
Udu Point	731.6	Above normal	443.5	657.7	533.8	53/71	39	30	31	1	Inconsistent
Rotuma (1912-2020)	587.1	Below normal	746.3	916.4	836.8	11/106	32	33	35	-2	Inconsistent

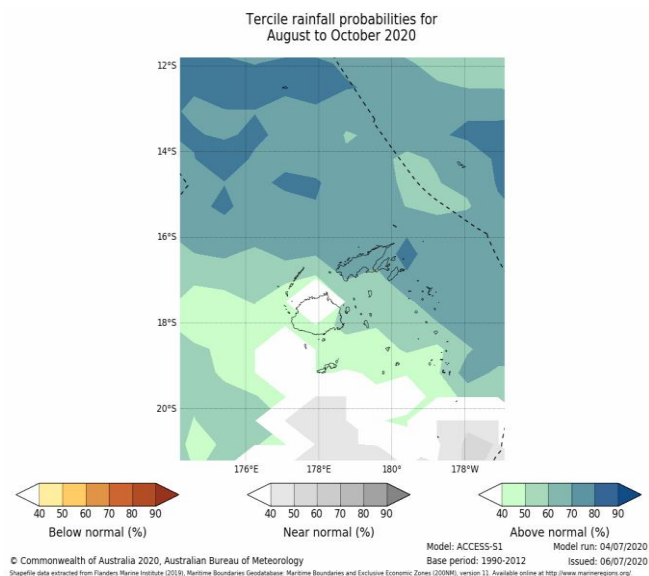
**TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2020****Predictor and Period used: NINO3.4 for May to June 2020**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Western Division</i>						
Penang Mill (1910-2020)	49	236.0	51		0	51
Lautoka Mill (1900-2020)	49	215.4	51		2	53
Nadi Airport (1942-2020)	48	225.1	52		3	53
<i>Central Division</i>						
Lautoka Bay (Suva) (1942-2020)	49	515.6	51		1	50
Nausori Airport (1957-2020)	48	483.9	52		2	56
Tokotoko (Navua) (1945-2020)	48	642.6	52		7	54
<i>Eastern Division</i>						
Lakeba (1950-2020)	50	308.9	50		-1	57
Vunisea (Kadavu) (1931-2020)	49	392.0	51		-1	46
Ono-i-Lau (1943-2020)	49	312.2	51		1	55
<i>Northern Division</i>						
Labasa Airport (1946-2020)	47	197.2	53		5	60
Savusavu Airfield (1956-2020)	49	353.9	51		0	53
Udu Point	49	342.0	51		0	56
Rotuma (1912-2020)	51	717.8	49		0	57

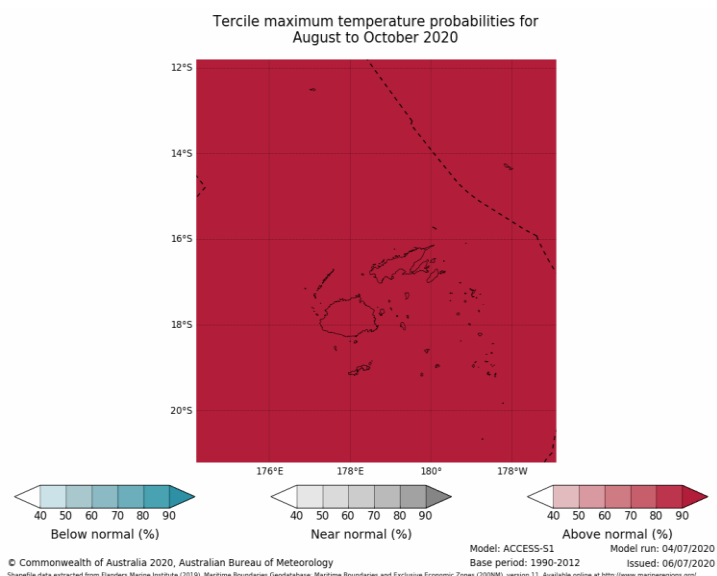
Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Western Division</i>							
Penang Mill (1910-2020)	33	182.3	33	292.3	34	6	33
Lautoka Mill (1900-2020)	30	153.0	35	254.2	35	4	32
Nadi Airport (1942-2020)	31	170.3	35	284.2	34	6	39
<i>Central Division</i>							
Lautoka Bay (Suva) (1942-2020)	31	416.6	35	628.8	34	4	40
Nausori Airport (1957-2020)	34	421.0	31	606.9	35	-1	33
Tokotoko (Navua) (1945-2020)	33	549.1	33	785.5	34	7	29
<i>Eastern Division</i>							
Lakeba (1950-2020)	32	252.4	34	344.3	34	2	46
Vunisea (Kadavu) (1931-2020)	34	325.7	32	447.8	34	2	37
Ono-i-Lau (1943-2020)	32	236.7	34	357.5	34	1	38
<i>Northern Division</i>							
Labasa Airport (1946-2020)	32	173.0	33	242.2	35	0	27
Savusavu Airfield (1956-2020)	31	301.3	34	416.5	35	2	40
Udu Point	33	297.4	32	411.9	35	2	36
Rotuma (1912-2020)	35	634.6	35	888.1	30	2	39

# Monthly and Seasonal Climate Outlooks using ACCESS-S for August to October 2020

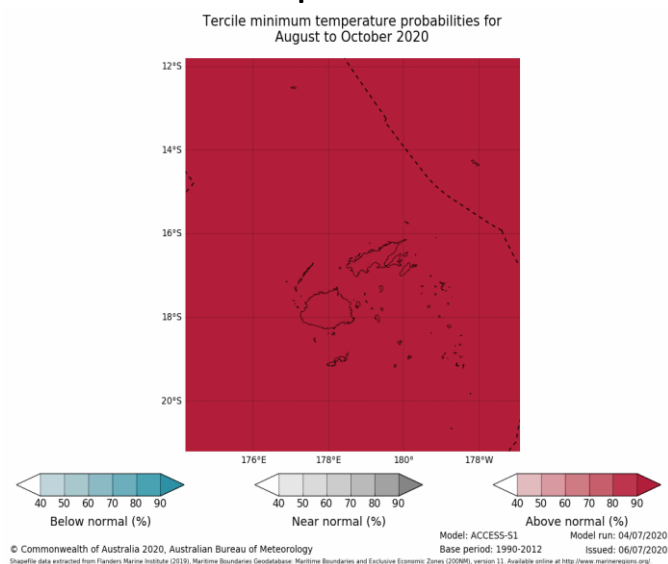
## Seasonal Rainfall



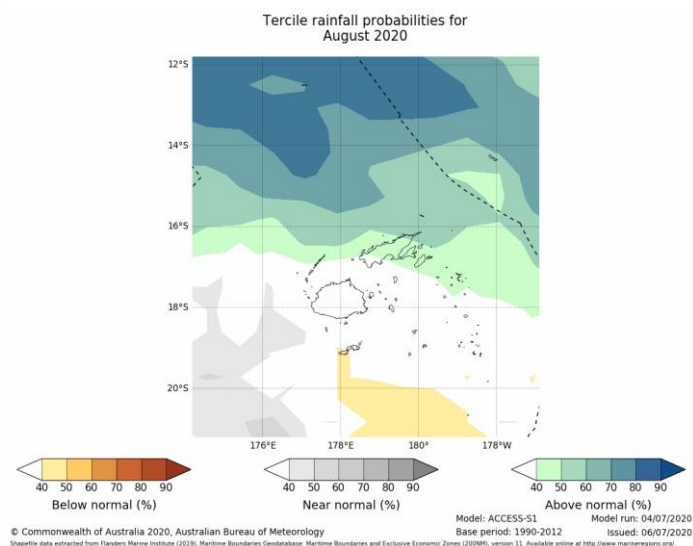
## Seasonal maximum temperature



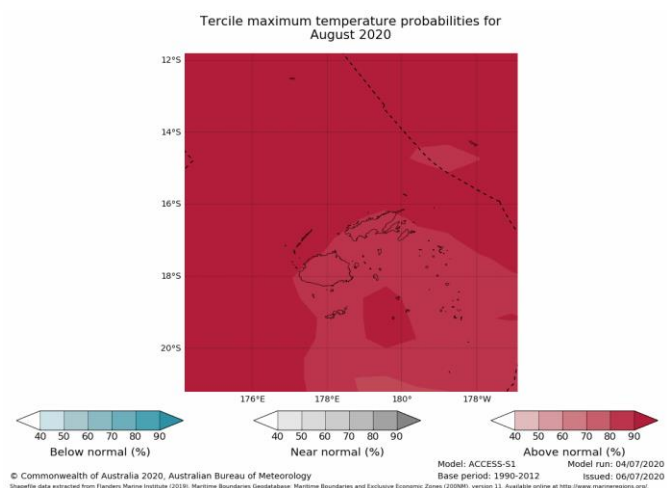
## Seasonal minimum temperature



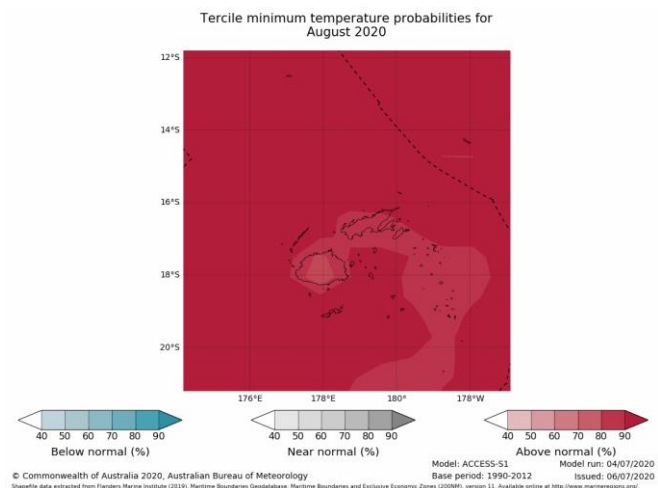
## Monthly rainfall



## Monthly maximum temperature



## Monthly minimum temperature



## **Summary Statements**

### **Rainfall for June 2020:**

*Near normal* rainfall was recorded in most parts of the Western, Northern, and Eastern Divisions, and Rotuma. *Above normal* rainfall was registered at Nausori Airport and Tokotoko (Navua) in the Central Division, Vunisea (Kadavu) in the Eastern Division, and Udu Point in the Northern Division.

### **Accumulated rainfall for April to June 2020, including outlook verification:**

*Above normal* rainfall was recorded across the Central and Eastern Divisions, at Lautoka Mill in the Western Division, and at Udu Point in the Northern Division. Rotuma was the only station with *below normal* rainfall.

It was the second wettest April to June period on record at Tokotoko (Navua), and the fourth wettest at Laucala Bay (Suva).

The rainfall outlooks were 'Near Consistent' at four sites and 'Inconsistent' at nine sites.

### **Outlooks for August to October 2020:**

#### **1. SCOPIC:**

- **All sites:** The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.
- The skill of the predictions range from *low* or *moderate* at this time of the year.

#### **2. ACCESS-S:**

##### **Seasonal rainfall (August to October 2020):**

- **Central, Northern and Eastern Divisions, Southwest Viti Levu, and Rotuma:** *Wetter than normal* season favoured.
- **Northwest Viti Levu:** Little guidance.

##### **Seasonal maximum and minimum temperature (August to October 2020):**

- **Western, Central, Eastern and Northern Divisions, and Rotuma:** *Above normal* maximum and minimum air temperatures favoured.

##### **Monthly rainfall (August 2020):**

- **Northern Division and Rotuma:** *Wetter than normal* month is favoured.
- **Western, Central and Eastern Divisions:** Little guidance.

##### **Monthly maximum and minimum temperatures (August 2020):**

- **Western, Central, Eastern and Northern Division, and Rotuma:** *A Warmer than normal* month is favoured.

**NB:** The X LEPS % score has been categorised as follows:

Very Low:  $X < 0.0$

Low:  $0 \leq X < 5$

Moderate  $5 \leq X < 10$

Good:  $10 \leq X < 15$

High:  $15 \leq X < 25$

Very High:  $25 \leq X < 35$  Exceptional:  $X \geq 35$

**Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders**

Product	Date: June 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Change Projections Map Launch	08/07/20	Senior Government Officials	18	8	10
Fiji Climate Summary	05/06/20	General public	140	106	34
Fiji Climate Outlook	11/06/20	General public	124	93	31
Climate Outlook for Monasavu	09/06/20	Energy Fiji Limited	13	13	-
EAR Watch	05/06/20	Humanitarian partners	122	96	26
Ocean Outlook	19/06/20	Reef Explorer Fiji Limited, Maritime Safety Authority of Fiji, World Wildlife Fund, Wildlife Conservation Society, Ministry of Fisheries and Tourism Sector	36	29	7
Meteorological Data Request	01/06/20 to 31/06/20	A range of stakeholders	57	48	9
<b>Total</b>			<b>510</b>	<b>393</b>	<b>117</b>